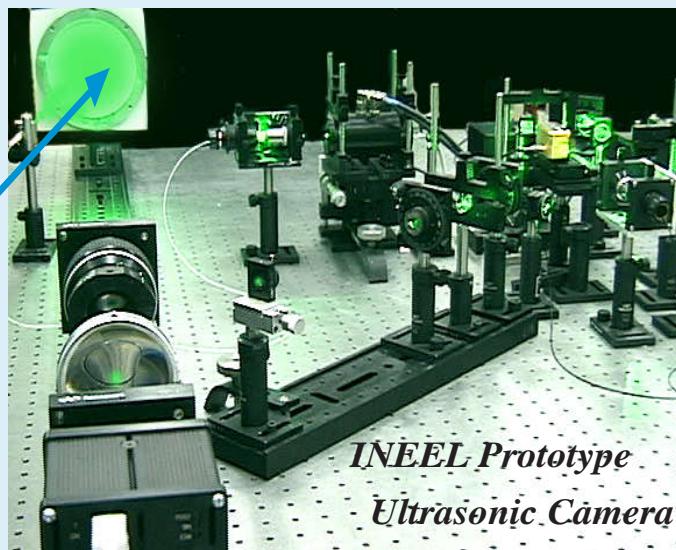
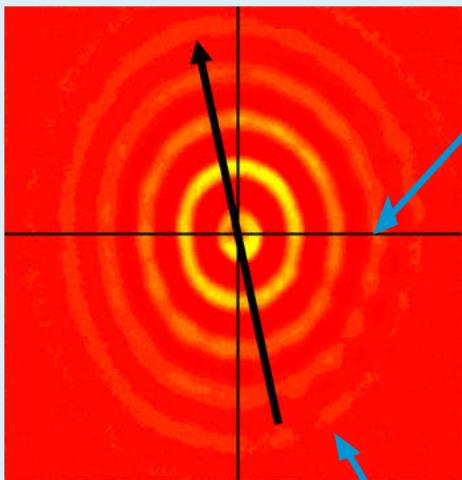


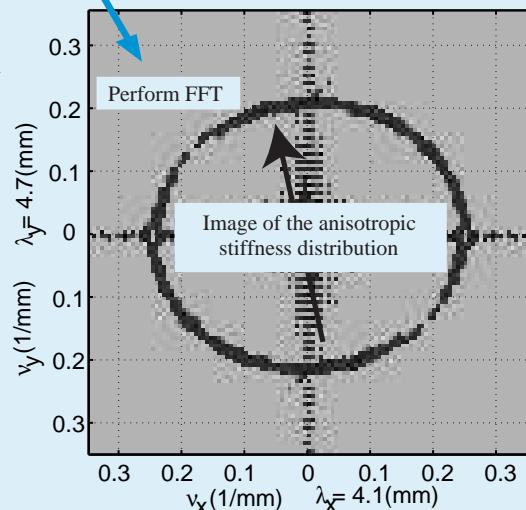
# *INEEL Laser Ultrasonic Camera*

*Traveling Ultrasonic Waves*



*INEEL Prototype  
Ultrasonic Camera*

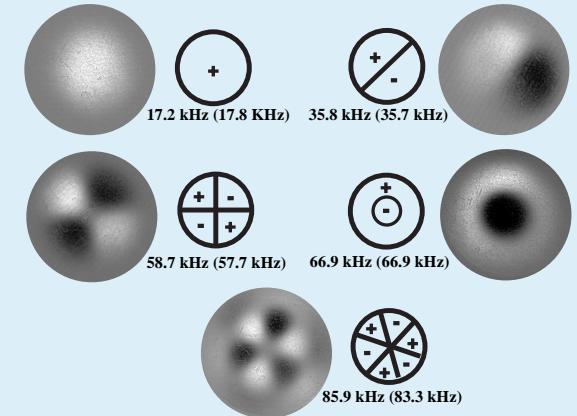
Traveling flexural waves show anisotropic physical and microstructural properties of materials. The direction of maximum wave speed and stiffness is shown.



**L N E E L**

*Idaho National Engineering and Environmental Lab*

*Resonant Ultrasonic Modes*



Imaged and calculated resonant modes for a clamped circular metallic plate

*Real-time imaging of ultrasonic waves in materials - without scanning*

*Flat frequency response: Hz - GHz  
Picometer / nanometer detection  
Quantitative imaging  
Video frame rates  
Fiber optic coupled  
Noncontacting*

Contact:

K. L. Telschow (208) 526-1264 telsch@inel.gov  
V. A. Deason (208) 526-2501 vac@inel.gov